

Product datasheet for **RG232269**

PYCR2 (NM_001271681) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PYCR2 (NM_001271681) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PYCR2
Synonyms:	HLD10; P5CR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232269 representing NM_001271681 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCGTGGCTTCATCGGGCCGGCCAGCTGGCCTATGCTCTGGCGGGGCTTCACGGCCGAGGCA
TCCTGTCGGCTCACAAGATAATAGCCAGCTCCCCAGAAATGAACCTGCCACGGTGTCCGCGCTCAGGAA
GATGGGTGTGAACCTGACACGCAGCAACAAGGAGACGGTGAAGCACAGCGACGTCCTGTTTCTGGCTGTG
AAGCCACATATCATCCCCTTCATCCTGGATGAGATTGGGGCCGACGTGCAAGCCAGACACATCGTGGTCT
CCTGTGCGGCTGGTGTCCACATCAGCTCTGTGGAGAAGGCATTCATGGCTCTGGACGATTGGCTGATGG
TGGGGTGAAGATGGGTTTGCCACGGCGCCTGGCAATCCAACCTCGGGGCCAGGCTTTGCTGGGAGCTGCC
AAGATGCTGCTGGACTCGGAGCAGCATCCATGCCAGTTAAGGACAATGTCTGCTCCCCTGGGGAGCCA
CCATCCACGCCCTGCACTTTCTAGAGAGTGGGGCTTCCGCTCTCTGCTCATCAATGCAGTTGAGGCCTC
CTGTATCCGAACACGAGAGCTACAGTCCATGGCCGACCAAGAAAAGATCTCCCCAGCTGCCCTTAAGAAG
ACCCTCTAGACAGAGTGAAGCTGGAATCCCCACAGTCTCCACACTGACCCCTCCAGCCCAGGGAAGC
TCCTCACAAGAAGCCTGGCCCTGGGAGGCAAGAAGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232269 representing NM_001271681
Red=Cloning site Green=Tags(s)

MSVGFIGAGQLAYALARGFTAAGILSAHKIIASSPEMNLPTVSALRKMGNLTRSNKETVKHSDVLFVAV
 KPHIIPFILDEIGADVQARHIVVSCAAGVTISSVEKAFMALDALADGGVKMGLPRRLAIQLGAQALLGAA
 KMLLDSEQHPCLKDNVCSPPGATIHAFLESGGFRSLLINAVEASCIRTRELQSMADQEKISPAALKK
 TLLDRVKLESPTVSTLTPSSPGKLLTRSLALGGKKD

TRTRPLE - GFP Tag - V

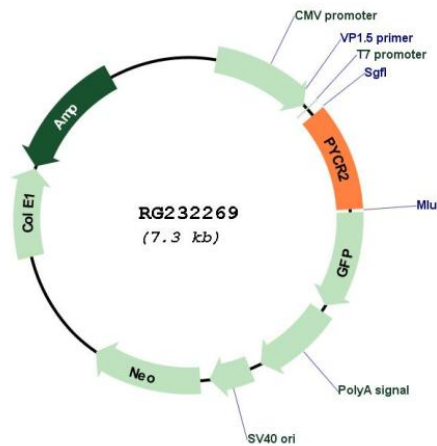
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001271681

ORF Size: 738 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001271681.1 , NP_001258610.1
RefSeq Size:	1549 bp
RefSeq ORF:	741 bp
Locus ID:	29920
UniProt ID:	Q96C36
Cytogenetics:	1q42.12
Protein Pathways:	Arginine and proline metabolism, Metabolic pathways
Gene Summary:	This gene belongs to the pyrroline-5-carboxylate reductase family. The encoded mitochondrial protein catalyzes the conversion of pyrroline-5-carboxylate to proline, which is the last step in proline biosynthesis. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Nov 2012]